

AMENDMENT UNDER 37 C.F.R. § 1.112
U.S. APPLN. NO. 10/539,577

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (canceled).
2. (currently amended): A device according to claim 1, ~~characterised in that 12, wherein~~ the valve (70, 80) of the flush tube (68) is supported by the body (32B) of the distributor (32).
3. (currently amended): A device according to claim 1, ~~characterised in that 12, wherein~~ the valve (70, 80) is mounted so as to rotate about an axis (Z-Z) orientated transversely to the flush tube (68).
4. (currently amended): A device according to claim 1, ~~characterised in that 12, wherein~~ the valve in the flush tube (68) comprises a plug (70) for that tube and a manual control lever (80), the plug and the handle being both connected mechanically to each other and capable of movement with respect to the body (32B) of the distributor (32).
5. (currently amended): A device according to claim 4, ~~characterised in that wherein~~ the plug (70) comprises a sector of a cylinder (74).
6. (currently amended): A device according to claim 1, ~~characterised in that it comprises~~ 12, further comprising means (94, 96) for resiliently returning the valve (70, 80) into its closed position.

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7. (currently amended): A device according to claim 6, ~~characterised in that~~ wherein the ~~return-returning~~ means ~~comprise-comprises~~ a flexible blade (94) bearing against the body (32B) of the distributor (32) and mechanically connected to the valve (70, 80) of the flush tube (68).

8. (currently amended): A device according to claim 4, ~~characterised in that~~ 12, wherein the body (32B) of the distributor (32) is made of one piece with the body of the syringe (30) in a leaktight manner.

9. (currently amended): A device according to claim 4, ~~characterised in that~~ 12, wherein the tube (56) feeding the first active medical fluid is bounded by the distributor (32).

10. (currently amended): A device according to claim 4, ~~characterised in that~~ 12, wherein the feed tube (56) and the injection tube (60) for the active medical fluid extend in substantially parallel directions.

11. A kit for the injection of a contrast product into the human body, ~~characterised in that~~ it comprises:comprising:

- a distribution device (2) according to claim 4,12,
- a feed line (4) for contrast product comprising a flexible conduit (8) fitted with a drip chamber (10) and designed to be connected at one extremity to a reservoir (6) for contrast fluid and at its other extremity to the feed tube (56) of the distribution device (2),
- a pressurised line (12) comprising at one extremity a coronary catheter (15) designed to be inserted into the patient's body and designed to be connected at its other extremity the pressurised tube (64) of the distribution device (2),

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- a pressure measurement line (16) incorporating a conduit (20) fitted with a pressure sensor (18) and designed to be connected to the pressure measurement tube (66) of the distribution device (2), and

- a flush line (22) comprising a flexible conduit (26) fitted with a drip chamber (28) and designed to be connected at one extremity to a reservoir (24) for a flush solution and at its other extremity to the flush tube (68) of the distribution device (2).

12. (new): A distribution device for a system (1) for delivery of medical fluids to a patient, comprising;

- a syringe body (30),

- a feed tube (56) for an active medical fluid, opening into the syringe body (30) and designed to be connected to a reservoir (6) for the active medical fluid,

- a distributor (32) comprising a distributor body (32B), within which there is bounded a chamber (62) for fluid circulation, and within the chamber (62) there are both a slide (112), which can move in relation to the distributor body (32B) and which forms, with walls of the chamber, a compartment (126), and a resilient member (120) placed between the slide (112) and a fixed part (122) of the distributor body,

- an injection tube (60), for the injection of the active medical fluid, connected to a distal extremity (46) of the syringe body (30) and opening into the chamber (62),

- a pressurised tube (64), designed to be connected to the patient through a pressurised line (12) of the system (1), and opening into the chamber (62),

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- a pressure measurement tube (66), designed to be connected to a pressure measurement line (16) of the system (1), and opening into the chamber (62), and

- a flush tube (68) which is separate from other tubes (56, 60, 64, 66) of the device, which is formed in the distributor body (32B) and which comprises a first section (68A), which is designed to be connected to a reservoir (24) for a flush medical fluid, and a second section (68B) opening directly into the chamber (62), said flush tube (68) being fitted with a valve (70, 80) equipped with a plug (70) which is located between the first and second sections (68A, 68B) of the flush tube and

which can be moved manually between a position in which it at least partly closes the flush tube and a position in which the flush tube (68) is in free communication with the chamber (62),

wherein the distributor provides an automatic connection via the chamber between the pressurised tube (64) and either the injection tube (60) or the pressure measurement tube (66) through the action of the pressure of the active medical fluid and the resilient member (120), the active medical fluid circulating via the compartment (126) between the pressurised tube (64) and the pressure measurement tube (66) when they are in connection, and

wherein the distributor (32) connects the flush tube (68) with the pressurised tube (64) and with the pressure measurement tube (66) via the chamber (62), the flush medical fluid circulating via the compartment (126) between the flush tube (68) and the pressure measurement tube (66) when they are in connection.